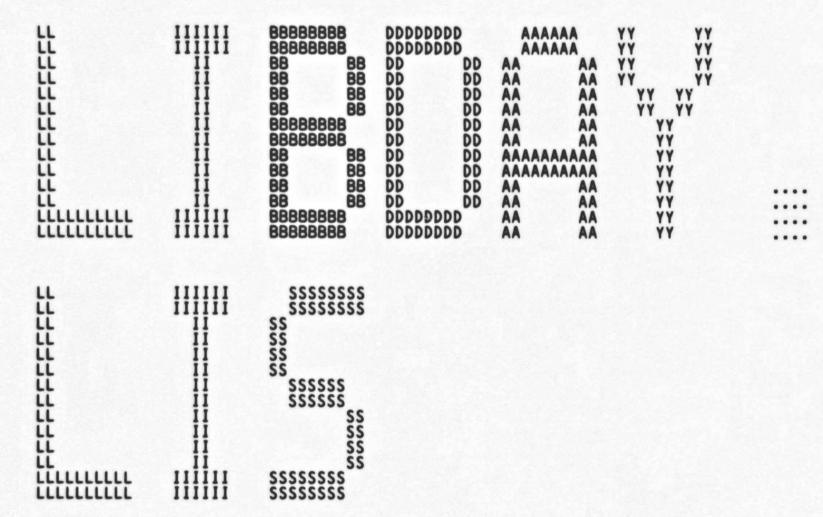
		BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		
LLL	HH				
LLL	III	BBB BBB BBB	RRR RRR	111	iii
illillillillill	1111111111	BBBBBBBBBBB	RRR RRR	TTT	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL		88888888888 88888888888	RRR RRR	III	

LI



LII VO

- Get number of days since zero date 15-SEP-1984 23:55:05 VAX/VMS Macro VO4-00 LIBSDAY Table of contents Page Edit History
DECLARATIONS
LIB\$DAY - Return day number as a longword integer (2) (3) (4)

LI

10

VO

.TITLE LIB\$DAY - Get number of days since zero date .IDENT /1-002/ ; File: LIBDAY.MAR

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; FACILITY: General Utility Library

ABSTRACT:

LIB\$DAY returns a longword integer containing the number of days since the system zero date of November 17, 1858. This is useful for keeping track of transaction dates, for the values can be easily subtracted and compared, unlike ASCII date formats.

ENVIRONMENT: User Mode, AST Reentrant

AUTHOR: Steven B. Lionel, CREATION DATE: 04-April-1979

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Th

- Get number of days since zero date

Page 5 (4)

- Get number of days since zero date 15-SEF	-1984 23:55:05 VAX/VMS Macro V04-00
LIBSDAY - Return day number as a longwor 6-SEF	-1984 11:05:13 [LIBRTL.SRC]LIBDAY.MAR;1

					0000 15	3 :			
				4000	0000 15		.ENTRY	LIBSDAY , MCIV>	; Entry point
		5E	18	C5	0002 15 0005 15	7	SUBL2	#24. SP	: Create quadword block for : system time plus result block : for \$NUMTIM.
		02	6C 0B	91	0005 16	í	CMPB	(AP), # <user_time 4=""></user_time>	; Optional arg present?
		08		05	000A 16		BLSS TSTL	user_time(AP)	Omitted by reference?
	6E	08		13 70 11	000F 16		BEQL MOVQ BRB	auser_time(AP), SYSTIM((SP) ; Get user supplied time ; Don't get system time
		73	50	E9	0015 16 001E 16 0021 16	7 10\$:	SGETTIM BLBC	S SYSTIM(SP)	<pre>; Get system time ; Should NEVER happen, but ; is good practice to check.</pre>
51 04 BC	6E 3B9	ACA00 00360 03	8F 6C	78 91 19 19 15 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	0021 17 002A 17 0033 17	20\$:	EDIV DIVL3 CMPB	#864, RO, aday_number(A(AP), # <day_time 4=""></day_time>	AP) ; and store. ; Day time requested?
		00	AC	05	0038 17		CMPB BLSS TSTL	day time(AP)	: No : Omitted by reference?
		04	AE 10	D5	003B 17	7	BEQL TSTL BGEQ	EXIT SYSTIM+4(SP)	; Yes ; Is system time negative?
		6E	6E	18 D2	0040 176 0042 176	3	BGEQ MCOML	30\$ SYSTIM(SP), SYSTIM(SP)	: No
	04 AE	04	AE 6E	D2	0045 18 004A 18	}	MCOML	SYSTIM(SP), SYSTIM(SP) SYSTIM+4(SP), SYSTIM+4(SYSTIM(SP)	(SP)
	04	AE	6E 00 3B 5E	08	004C 18		ADWC	#O, SYSTIM+4(SP)	
		50	SE.	DO	0052 18	30\$:	BVS MOVL	#0, SYSTIM+4(SP) OVFLO SP, RO	: Overflow? : Save stack pointer
		30	50	E9	0061 18		SNUMTIM	RO, ERROR YEAR(RO), SYSTI	(M(RO) ; Get numeric time ; Error?
	50 OE	AE	50	7C A5 A0 C4 B0	0064 187		BLBC CLRQ MIII US	#60, HOUR(SP), RO	; find time in units of .01 secs
	50 OE		ĄĚ	ÃÔ	0066 189 006B 189 006F 199 0072 199		MULW3	MINUTE(SP), RO	; RO has minutes
	51	50	AE	B0	006F 190		MULL2 MOVW	#60, R0 SECOND(SP), R1	
	50 000	50 00064 50	51	C0 C4 B0 C1	0076 193 0079 193		MOVW ADDL2	SECOND(SP), R1 R1, R0 #100, R0	; RO has seconds
	51	14	AE	BO	0080 19		MOVW ADDL3	HUNDREDIHS (SP), RI	
	OC BC	50	51	C1	0084 199		ADDL3	R1, RO, aday_time(AP)	; store .01 seconds
		50	01	D0 04	0089 190 0089 190 0089 190 0080 190		MOVL	#1, R0	; Return with SS\$_NORMAL
	50 000	00000	100	00	008D 20	OVFLO:	MOVI	ACCE INTONE DO	. 0.4
	50 000	00000	10	DO	0094 20	ERROR:	MOVL	#SS\$_INTOVF, RO	; Return with error status
				04	008D 200 008D 200 008D 200 0094 200 0094 200 0095 200		RET .END		; Return with error status

```
15-SEP-1984 23:55:05 VAX/VMS Macro V04-00 6-SEP-1984 11:05:13 [LIBRIL.SRCJLIBDAY.MAR;1
 LIB$DAY
                                                  - Get number of days since zero date
Symbol table
                      = 00000004
= 000000000
00000089 R
= 0000000E
= 00000014
00000000 RG
00000010
00000080 R
DAY_NUMBER
DAY_TIME
ERROR
EXIT
HOUR
HUNDREDTHS
LIBSDAY
                                                  01
MINUTE
OVFLO
                                                  01
SECOND
                          00000012
SSS INTOVE
SYSSGETTIM
                          *******
                           *******
SYS$NUMTIM
                           *******
                       = 00000000
SYSTIM
USER_TIME
                       = 00000008
                        = 00000008
                                                                              Psect synopsis!
PSECT name
                                                                                 PSECT No.
                                                  Allocation
                                                                                                  Attributes
                                                  00000000
LIB$CODE
                                                                                                                                           LCL NOSHR NOEXE NORD
LCL SHR EXE RD
                                                                                                                                                                             NOWRT NOVEC BYTE
                                                                                                               USR
                                                                                                                        CON
                                                                                                                                                                             NOWRT NOVEC LONG
                                                                         Performance indicators !
Phase
                                       Page faults
                                                              CPU Time
                                                                                      Elapsed Time
                                                                                     00:00:03.70
00:00:03.99
00:00:06.84
00:00:00.01
00:00:03.17
00:00:00.02
00:00:00.01
00:00:00.01
                                                              00:00:00.04
00:00:00.31
00:00:00.49
00:00:00.01
00:00:00.01
00:00:00.01
00:00:00.01
                                                  29
114
106
Initialization
Command processing
Pass 1
Symbol table sort
Pass 2
Symbol table output
Psect synopsis output
Cross-reference output
Assembler run totals
```

The working set limit was 1050 pages.
3174 bytes (7 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 18 non-local and 3 local symbols.
205 source lines were read in Pass 1, producing 11 object records in Pass 2.
3 pages of virtual memory were used to define 3 macros.

Macro library statistics !

Macro Library name

Macros defined

\$255\$DUA28:[SYSLIB]STARLET.MLB;2

3

18 GETS were required to define 3 macros.

LIB\$DAY
VAX-11 Macro Run Statistics

- Get number of days since zero date

15-SEP-1984 23:55:05 VAX/VMS Macro V04-00 Page 7
6-SEP-1984 11:05:13 [LIBRIL.SRC]LIBDAY.MAR;1

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:LIBDAY/OBJ=OBJ\$:LIBDAY MSRC\$:LIBDAY/UPDATE=(ENH\$:LIBDAY)

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